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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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10/730,640

12/08/2003

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EXAMINER

PERUNGAVOOR, VENKATANARAY

ART UNIT

PAPER NUMBER

2132

NOTIFICATION DATE

DELIVERY MODE

06/27/2008

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

Docketing@eschweilerlaw.com

| | | | |
|------------------------------|---------------------------------------|--------------------------------------|--|
| Office Action Summary | Application No. 10/730,640 | Applicant(s) GOH, JOON-KIT | |
| | Examiner Venkat Perungavoor | Art Unit 2132 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 4/23/2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 and 11-28 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-6, 11-18, 25-27 is/are allowed.
- 6) ☒ Claim(s) 19-25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 19, 22-24, 28 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 19-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 7142671 to Qi et al.(hereinafter Qi) in view of US Patent 5099517 to Gupta et al.(hereinafter Gupta).

Regarding Claim 19, 28, Qi discloses the a security processing circuit coupled between the bus interface and the media access control system, the security processing circuit adapted to selectively encrypt outgoing data and to selectively decrypt incoming data, the security processing circuit comprising a single DES engine operable to perform 3DES processing of data by selectively feeding back intermediate data results to an input thereof to perform additional processing on the data see Fig. 2 item 213, 215, 211.

But Qi does not disclose the bus interface and media interface. However, Gupta discloses the network interface device for interfacing a host system with a network to

provide outgoing data from the host system to the network and to provide incoming data from the network to the host system, the network interface device comprising:

a bus interface coupled with a host bus in the host system, the bus interface being adapted to transfer data between the network interface device and the host system see Fig. 3 item 64;

a media access control system coupled with the network, the media access control system being adapted to transfer data between the network interface device and the network see Fig. 3 item 20.

It would be obvious to one having ordinary skill in the art at the time of the invention to include the network interface and media interface in the invention of Qi in order to perform the DES operation over an network as taught in Gupta see Col 2 Ln 40-53.

Regarding Claim 20-22, 24, Gupta discloses the PC interface, the MAC interface and encryption see Fig. 9a & Fig. 3.

Regarding Claim 23, Qi discloses the storing the outgoing data from the bus interface into a 3DES processing circuit see Fig. 2 item 203;

selectively performing security processing on the outgoing data encrypting the data according to security key information and storing the outgoing data in the 3DES processing circuit using a single DES engine see Fig. 2 item 213;

Qi does not disclose the interfaces. However, Gupta discloses

transferring data between the network interface device and the host system using a bus interface see Fig. 3 item 64;

transferring data between the network interface device and the network using a media access control system see Fig. 3 item 20;

obtaining security information from the host system, the security information being associated with outgoing data see Col 2 Ln 33-54;

transferring the outgoing data from the 3DES processing circuit to the network interface device using the interface bus see Col 2 Ln 55-62; and

transferring the outgoing data from the interface bus to the network using the media access control system see Col 3 Ln 1-30.

It would be obvious to one having ordinary skill in the art at the time of the invention to include the network interface and media interface in the invention of Qi in order to perform the DES operation over an network as taught in Gupta see Col 2 Ln 40-53.

Allowable Subject Matter

Claims 1-6, 11-18, 25-27 are allowed. The Applicant arguments presented on 10/26/2007 are persuasive.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Venkat Perungavoor whose telephone number is (571)272-7213. The examiner can normally be reached on 8:30-5:00. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2132

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/V. P./

Examiner, Art Unit 2132

June 16, 2008

/Gilberto Barron Jr/

Supervisory Patent Examiner, Art Unit 2132